| | Application No. | Applicant(s) | m |
|---|--|---|--------------|
| Notice of Allowability | 10/697,316 | TAKEUCHI, MASAHIKO | |
| | Examiner | Art Unit | |
| | Chandra Chaudhari | 2829 | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this or other appropriate communicat IGHTS. This application is subject | application. If not included ion will be mailed in due cour | rse. THIS |
| 1. This communication is responsive to October 31, 2003. | | | |
| 2. The allowed claim(s) is/are <u>1-14</u> . | | | |
| 3. \boxtimes The drawings filed on <u>31 October 2003</u> are accepted by the | e Examiner. | | |
| 4. | e been received. e been received in Application No cuments have been received in the of this communication to file a replication. Interest of this application. Interest of this application of the drawn of the drawn of the drawn of the this application of this application of the this application of the thi | nis national stage application ply complying with the require ER'S AMENDMENT or NOTI laration is deficient. TO-948) attached the Office action of awings in the front (not the back 21(d). AL must be submitted. Note | ements CE OF |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date Oct. 31, 2003) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 6. ☐ Interview Summ Paper No./Mail 08), 7. ☑ Examiner's Ame | Date | · |

Application/Control Number: 10/697,316

Art Unit: 2829

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-14, drawn to a method of making a semiconductor device, classified in class 438, subclass 241.

II. Claims 15-20, drawn to a semiconductor device, classified in class 257, subclass 296.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process such as electrically connecting to an external source instead of to the semiconductor substrate.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Eckhard Kuesters on March 16, 2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-14. Affirmation of this election must be made by applicant in replying to this Office action. Claims 15-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eckhard Kuesters on March 17, 2005.

The application has been amended as follows:

Cancel claims 15-20.

The following is an examiner's statement of reasons for allowance:

The prior art does not disclose the first contact plug having a first conductive film and a first conductive barrier layer formed on a top end of the first contact plug, forming an MIM capacitor in contact with the first conductive barrier and forming a second insulting film, covering the MIM capacitor, on a top surface of the structure in conjunction with the other claim limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandra Chaudhari whose telephone number is 571-272-1688. The examiner can normally be reached on Mon - Fri (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chandra Chaudhari
Primary Examiner
Art Unit 2829

Chandra Chaudhari

C. Chardhari

March 17, 2005